

SERVICE MANUAL



PK-101/PK-101N

Date	Revise Version	Description
2008.10.22	V1.0	Initial Issue
2009.04.15	V2.0	Add PK-101 extended model: PK-101N; Update Engineering Spec. in Chapter 1; Add "Disassemble Engine and Main Board Module" details in 2-5; Modify "Power troubleshooting" in 3-3; Revise "Dead Pixel (Dark pixel)" and add "CS Setting" in 4-5; add a new method of connecting all ports in 5-2.
2010.02.22	V3.0	Modify "Defect specification table" in Chapter 4.

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Prepared: *Asina*

Checked: *Aliek*

Approved: *Aliek*

Preface

This manual is applied to PK-101/PK-101N projection system. The manual gives you a brief description of basic technical information to help in service and maintain the product.

Your customers will appreciate the quick response time when you immediately identify problems that occur with our products. We expect your customers will appreciate the service that you offer them.

This manual is for technicians and people who have an electronic background. Please send the product back to the distributor for repairing and do not attempt to do anything that is complex or is not mentioned in the troubleshooting.

Note: The information found in this manual is subject to change without prior notice. Any subsequent changes made to the data herein will be incorporated in future edition.

PK-101/PK-101N Service Manual

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Manual Version 3.0

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Appendix A

Exploded Image	I
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Appendix B

Serial Number System Definition	XII
PCBA Code Definition	XIII

Introduction

1-1 Highlight

No	Item	Description
1	Dimensions (WxDxH)	- 51.25 mm x 106.45 mm x 17.10 mm
2	Weight	- <120g with Battery
3	Power Supply	- Auto-ranging: AC100V ~ 240V \pm 10%, 50-60Hz DC 5V/1A
4	Resolution	- 480 x 320
5	Brightness	- 7.5 ANSI Lumens (Typical) - 6.5 ANSI Lumens (Minimum)
6	Contrast Ratio	- 800 : 1 Full on/Full off (Minimum)
7	Uniformity	- 50% JBMA standard (Minimum)
8	Throw ratio	- 1.89 (Distance/Width)
9	Throw Distance	- 20cm to 263.6cm
10	Projection Image Size	- 5"~66"
11	Offset	- 100% \pm 5%
12	Lamp	- LED (1 Watt RGB LED)
13	LED life	- 20,000 Hours @ 50% brightness decay
14	Temperatures	- Operating: 5 ~ 35 °C - Non-operation: -20°C ~ 60°C - Battery charge : 5 ~ 30°C
15	Altitude	- Operating: 0 ~ 2,500 ft, for 5°C~35°C 2,500 ft ~ 5,000 ft, for 5°C~30°C 5,000 ft ~ 10,000 ft, for 5°C~25°C
16	Maximum Humidity	- Operating: 5~35°C,80%RH(Max.),non-condensing - Storage: -20~60°C,80%RH(Max.),non-condensing
17	I/O Definition	- Input: AV-in - Output: Audio out speaker 0.5W
18	Audio	- 1 x 0.5W Speaker
19	Video Compatibility	- NTSC/PAL
20	Battery	- NP 60

No	Item	Description
21	Focus lens	- F1.9
22	DMD	- Single 0.17" STP HVGA DMD
23	Native Resolution	- 480 x 320
24	Power consumption	- 4.8 W in Standard Mode - 3.5 W in ECO Mode
25	Terminal	- Power input only - AV-in

Disassembly Process

2-1 Equipment Needed & Product Overview

1. Screw Bit (+) : No.1
2. Screw Bit (+) : No.00
3. Screw Bit (-) : 1.4mm
4. Tweezers
5. PK-101 unit

** Before you start: This process is protective level II. Operators should wear electrostatic chains.*

Set the screwdriver's torque to 0.5-0.6 kgf-cm.



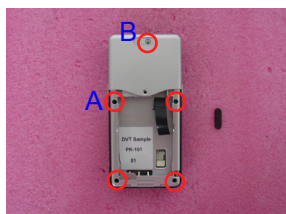
2-2 Disassemble Battery Cover Module

1. Disassembly the Battery Cover Module (as red arrow direct).
2. Remove the Battery.



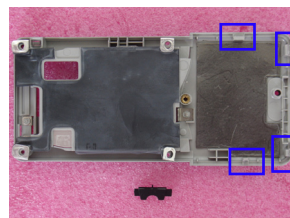
2-3 Disassemble Bottom Cover Module

1. Tear off the rubber (as blue circle).
2. Unscrew 5 screws from the Bottom Cover (as red circle).



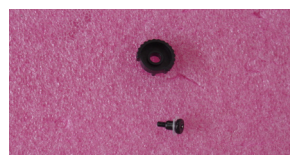
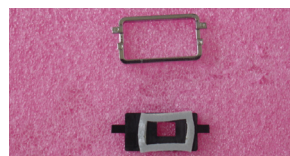
3. Disassemble Bottom Cover Module and AV Jack Cover.

Note: There are 4 connectors (as blue square) of the bottom cover,when disassembling it, you must be carefull so as not to damage the bottom cover.



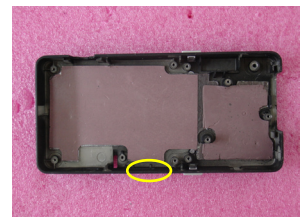
2-4 Disassemble Lens and Focus Ring

1. Disassemble the Lens Deco and Deco Inner (as yellow square).
2. Unscrew 1 screw (as red circle) to disassemble the Focus Ring.

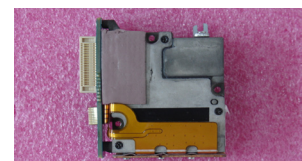
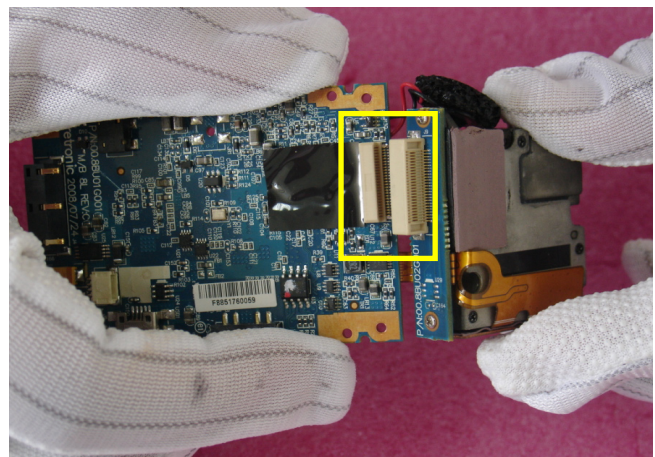


2-5 Disassemble Engine Module and Main Board Module

1. Unscrew 4 screws (as red circle).
2. Disassemble the Engine Module and Main Board Module from the Top Cover Module.
3. Disassemble the Slide Switch (as yellow circle).

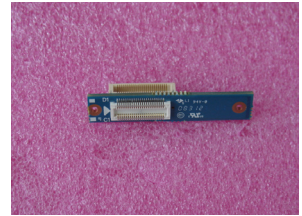
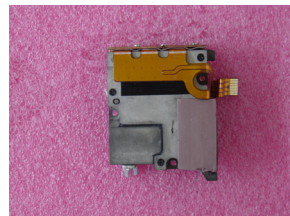
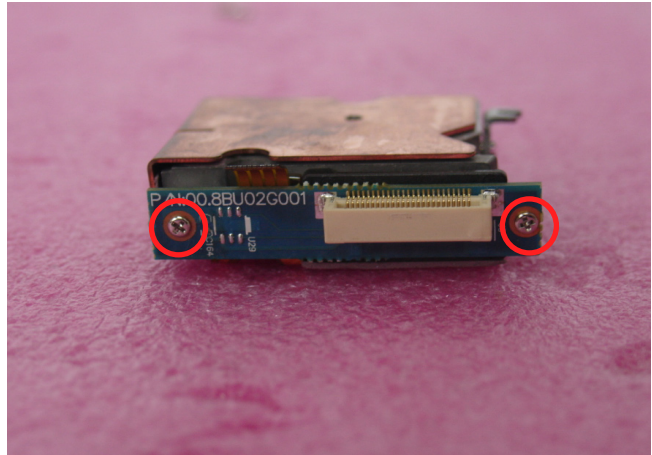


4. Unplug 1 connector (as yellow square).
5. Turn the Engine Module and Main Board Module to backside and unplug 1 connector (as blue square).
6. Separate the Engine Module and the Main Board Module.



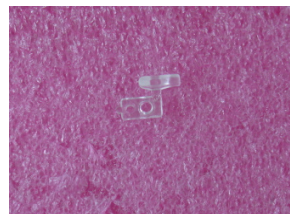
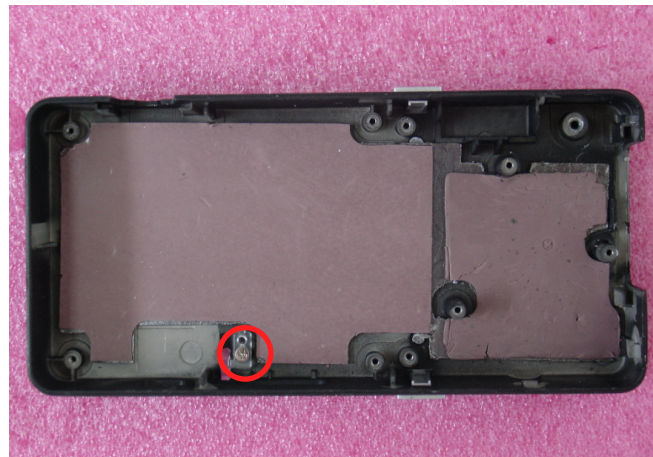
2-6 Disassemble Engine Module and DMD Board

1. Unscrew 2 screws on the DMD Board (as red circle).
2. Separate the Engine Module and the DMD Board.



2-7 Disassemble the LED Lens Transparent

1. Unscrew 1 screw (as red circle).
2. Disassemble the LED Lens Transparent.

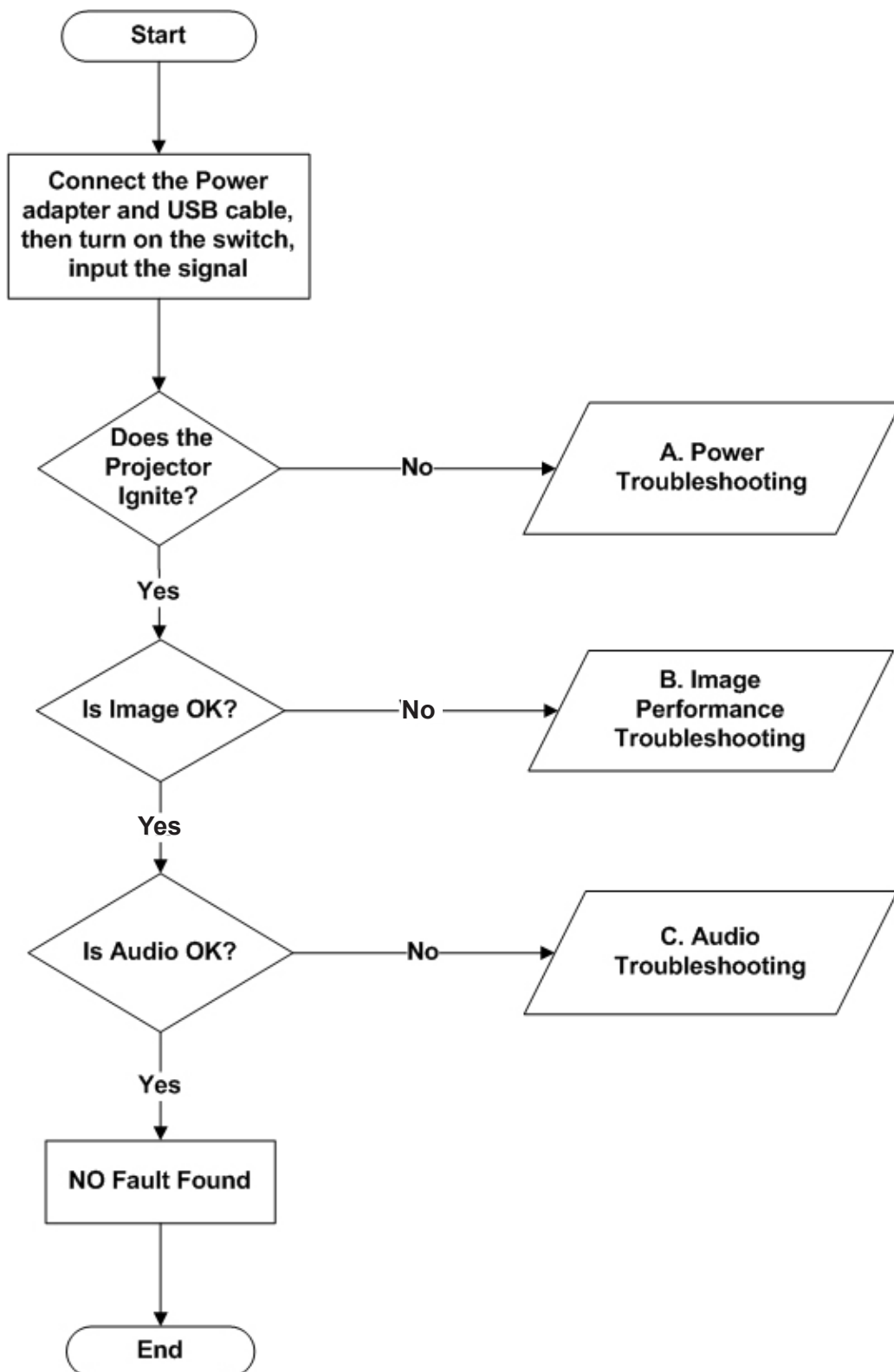


Troubleshooting

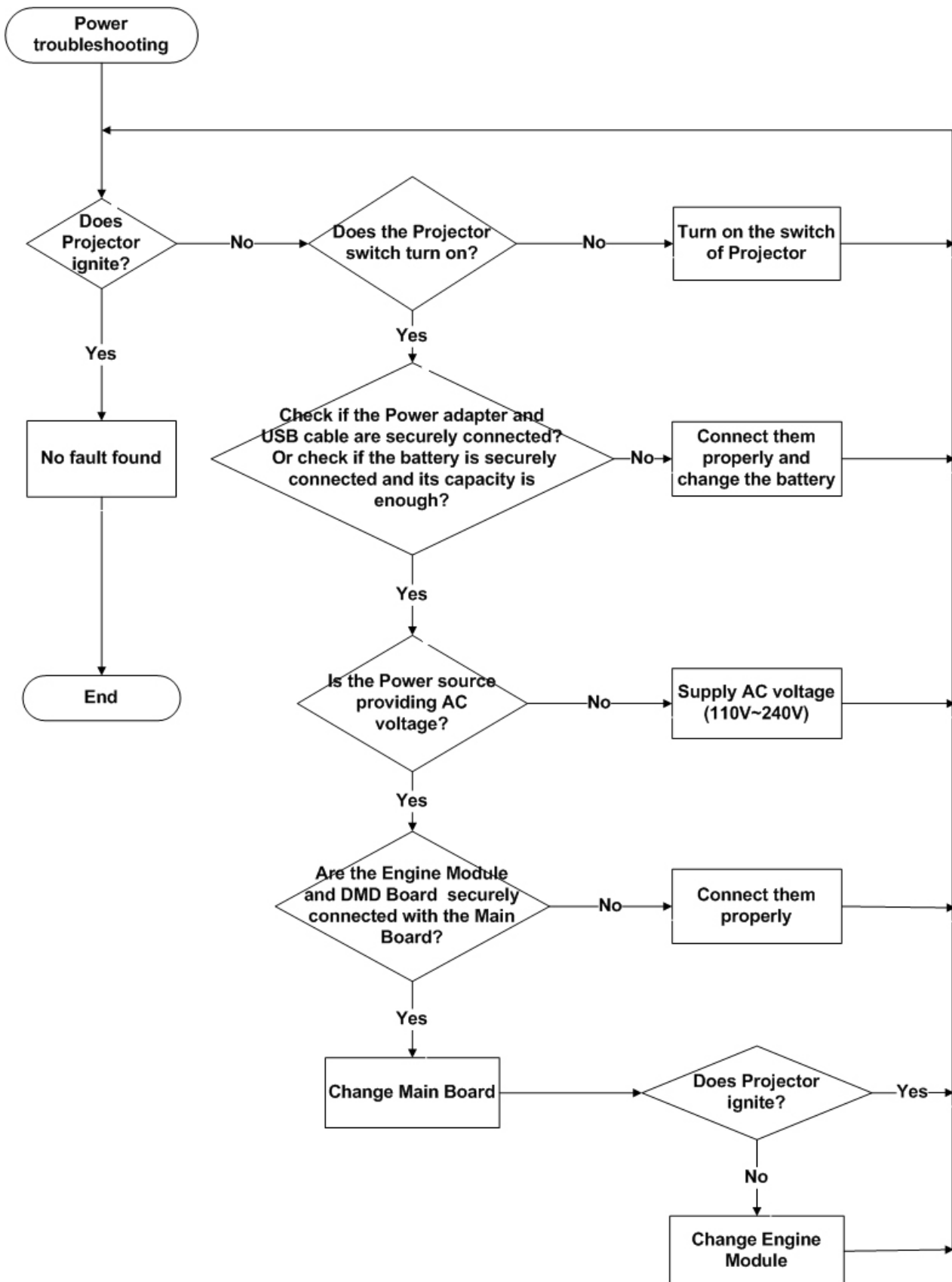
3-1 Equipment Needed

1. Projector
3. DVD player
4. Screw drivers
5. Power adapter, USB Cable
6. Voltage test meter
7. Oscilloscope

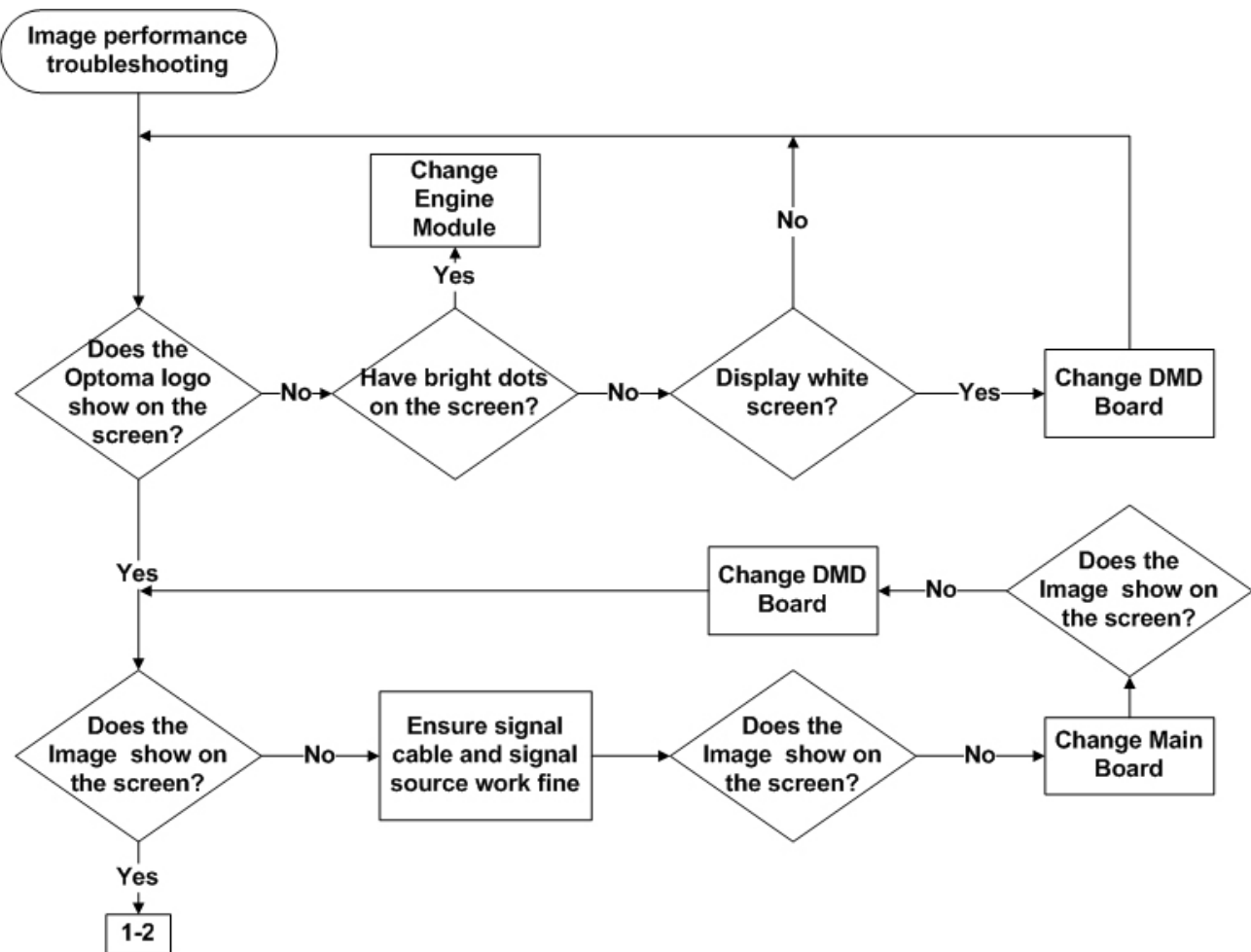
3-2 Main Procedure



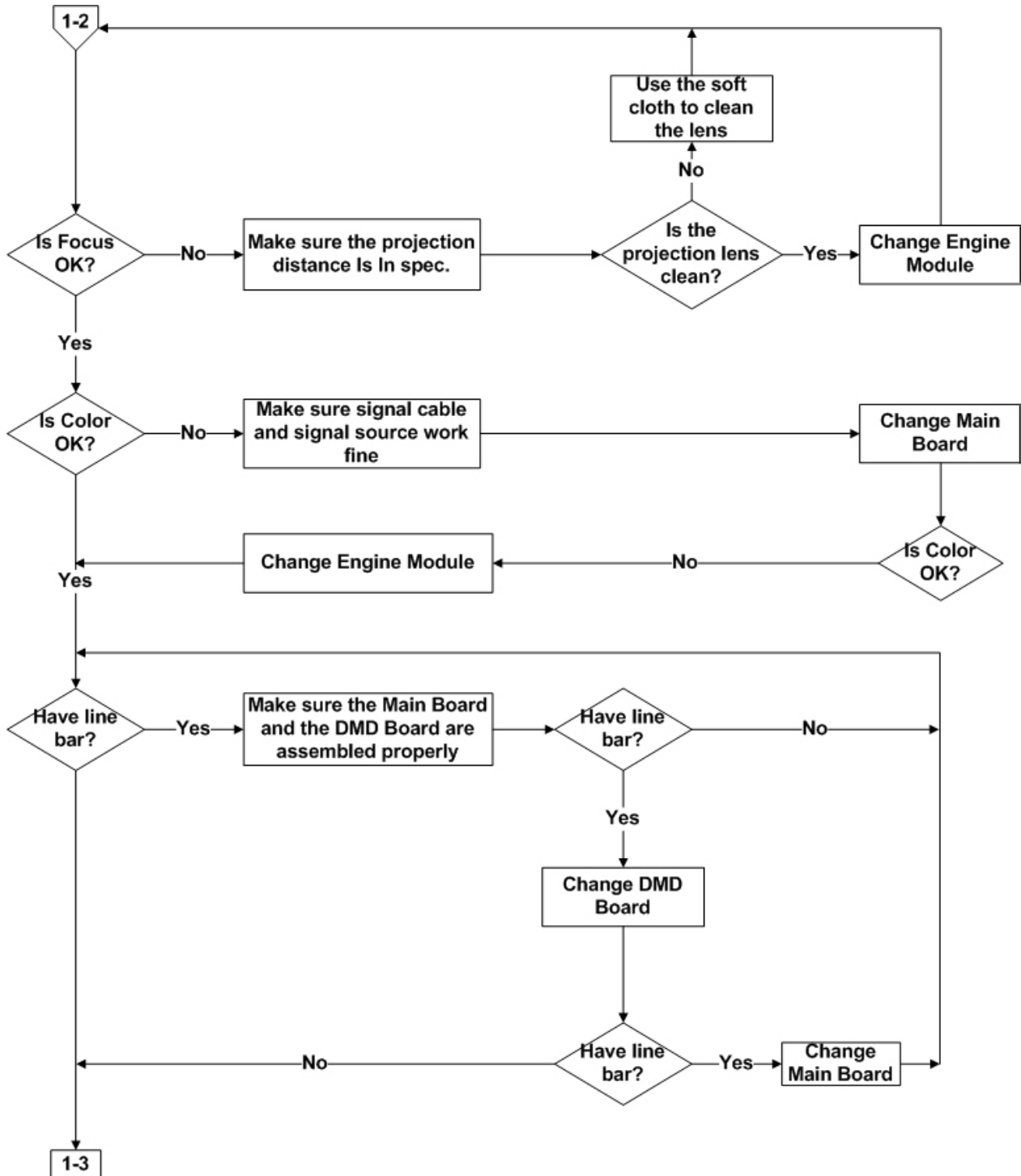
3-3 Power Troubleshooting



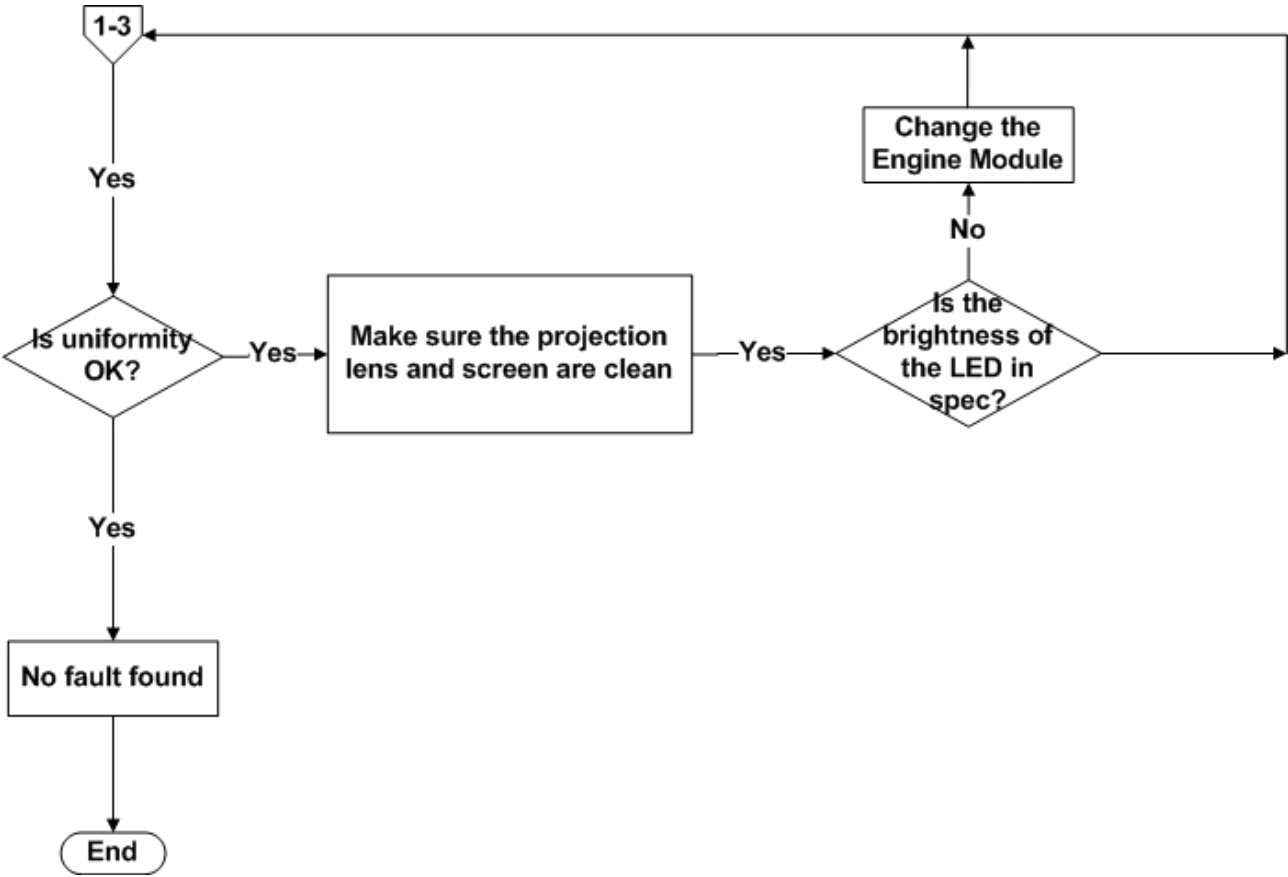
3-3 Image Performance Troubleshooting



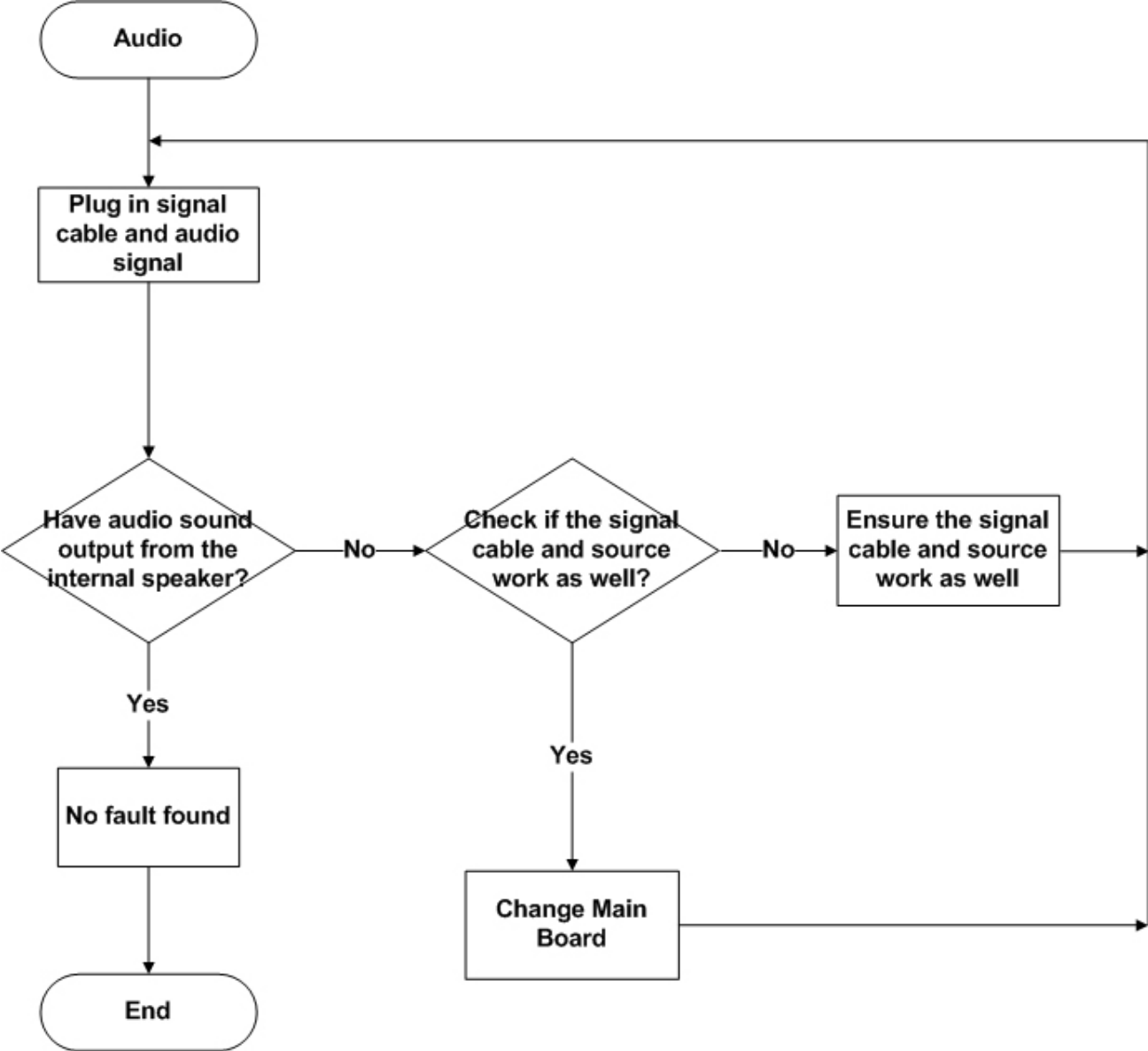
3-3 Image Performance Troubleshooting



3-3 Image Performance Troubleshooting



3-4 Audio Troubleshooting



Function Test & Alignment Procedure

4-1 Test Equipment Needed


- DVD player with Multi-system (NTSC/PAL)
- Equipped "Component", "S-Video" , "Composite"
- Minolta CL-100
- Quantum Data 802B or CHROMA2327 (Color Video Signal & Pattern Generator)
- Remote control of the EP752 (P/N: 45.87J01G101)
- After changing parts, check the information below

4-2 Service Mode

1. Turn on the projector and input the signal
2. Do the following actions sequentially to get into service mode

(1) The first method is as follows

- Press "Menu -> Select -> Left -> Right -> Select" on Remote control of the EP752

(Such as: )

Note: This is a unlock action when you turn on the projector for the first time.

(2) The second method is as follows

- Press "Select" button to get into service mode

Note: If you exit service mode, but you don't turn off the projector, when you get into service mode for the second time, please press "Select".

- Service mode will be shown
- After confirming the configuration, press "exit" to exit.

4-3 Test Condition

- Circumstance brightness: Dark room less than 0.1 lux.
- Inspection distance: 0.8 M~1 M functional inspection.
- Screen size: 20 inches diagonal
- After repairing PK-101/PK-101N, the unit should be run-in (refer to the table below)

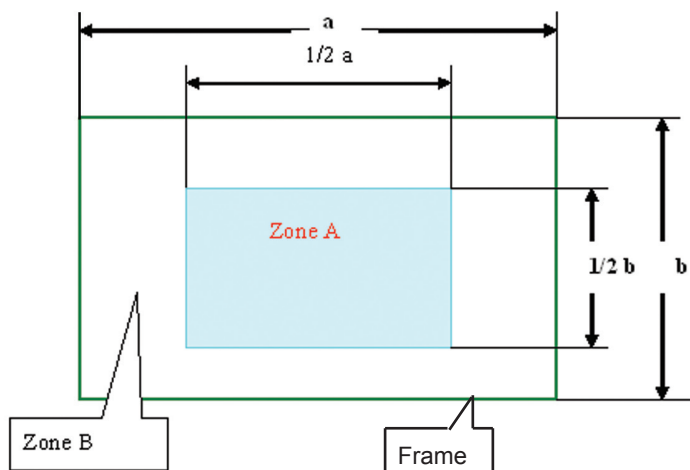
Symptom	Run-in Time
Normal repair	2 hours
NFF	4 hours
Auto shutdown	6 hours

- Get into Burn-In Mode

* Cycle setting is based on the defect symptoms. ie: If it is NFF, the run-in time is 4 hours. You have to set the lamp on for 60 minute for 4 cycles.

Press Menu -> Select -> Left -> Right -> Select	
Choose Burn-In	
Lamp On (Min)	Press right key to adjust the time(60)
Set burn in cycle	Press right key to adjust the cycle
After setting up the time, choose Burn-In mode and hit "select"	

Screen Defects (While replacing Engine Module, DMD BD and Main Board)



< Figure: Zone A, Zone B & Frame (as green line) Definition, Active area=Zone A+ Zone B >

Defect specification table

Order	Symptom	Pattern	Criteria
1	Bright pixel (dots)	Gray 10	A+B≤1
2	Dark pixel (dots)	White pattern	A+B≤6
3	Unstable pixel (dots)	Any pattern	A+B≤1
4	Adjacent dark pixel (dots)	Any pattern	A+B=0
5	Bright dot on frame	Gray 10	≤1

4-4 Test Inspection Procedure

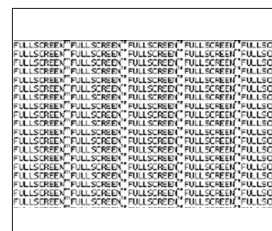
Update	Change parts	
	Main Board Module	Firmware
Version Update	V	V
Factory Reset	V	V

4-5 Video Performance

1. Focus test

Procedure

- Turn on projector, please refer to 4-2 to get into service mode.
- Press the "VGA-2" button on the Remote control of the EP752 to select the full screen pattern of the projector own to test.



Full screen

Inspection item	- Test Pattern: Full screen
Criteria	- Focus check - From screen 0.8 M via visual to check the pattern, make sure the word of the full screen pattern should be clear and recognizable.

2. Bright Pixel

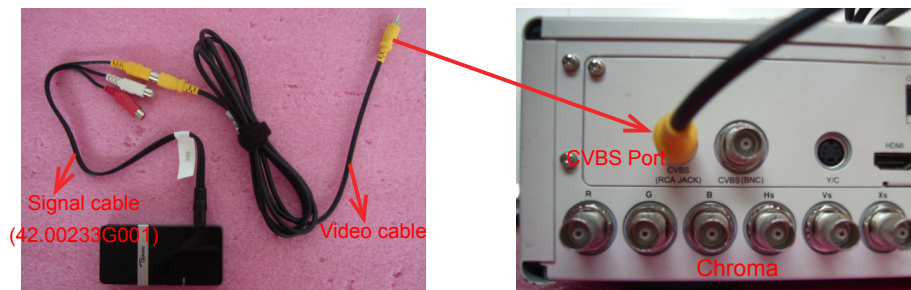
Procedure	- Press the "S-Video" button on the Remote control of the EP752 to select the gray 10 patterns of the projector own to test. - Test Pattern: gray 10
Inspection item	- Bright pixel check. Note: Frame dimension under operative zone 1 inch.
Criteria	- The number of the bright pixels should be less or equal to 1 pixels. - Ref. the Defect specification table Note: The defect criteria follows TI specification.



Gray 10

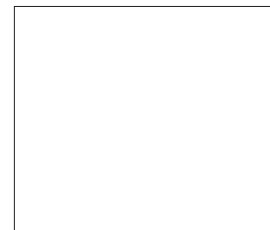
3. Dark Pixel

Please follow the bellow picture to connect the projector and Chroma.
(Signal cable (42.00233G001) is PK-101's accessory)



Procedure	- Test equipment: video generator - Test signal: CVBS
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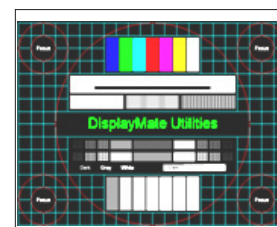
Inspection item	<ul style="list-style-type: none"> - Test Pattern: full white - Dark pixels check. - White pattern - Adjacent dark pixel.
Criteria	<ul style="list-style-type: none"> - The number of the dead pixels should be less or equal to 6 pixels. - Adjacent pixel with each other is unacceptable. - It is acceptable that shadows (such as a light red/ yellow/blue color) appear 10mm zone within the frame of white pattern. Besides, width of shadow zone can't exceed 10mm. - Ref. the Defect specification table <p>Note: The defect criteria follows TI specification.</p>



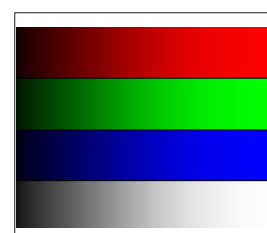
Full white

4. Color performance

Procedure	<ul style="list-style-type: none"> - Test equipment: video generator - Test signal: CVBS - Test Pattern: Master, 64 gray RGBW * Please refer to 4-2 to get into service mode. Use signal, master pattern to do the test. Color cannot discolor to purple and blue.
Inspection item	<ul style="list-style-type: none"> - Check if each color level is well-functioned. - Color saturation
Criteria	<ul style="list-style-type: none"> - Screen appears normal. It should not have any abnormal condition, such as lines appear on the screen and so on. - Color appears normal. - It is acceptable to have few lines flashing at the center and on the edge of image. However, rest of the image should appears stable. - RGBW should all appear normal on the screen and sort from R -G-B-W. - Color levels should be sufficient and normal. (the unidentified color levels on both left and right sides should not over 4 color levels.) - Gray level should not have abnormal color or heavy lines.



Master

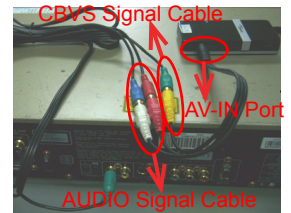


64 gray RGBW

5. CVBS

Plug AV cable into the AV-IN port, the CBVS signal and Audio signal will be inputted, the signal test is as follows.

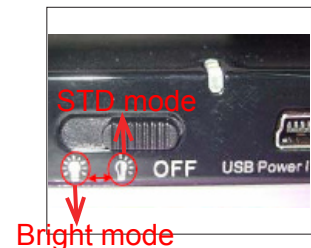
Procedure	<ul style="list-style-type: none">- Test equipment: DVD player- Test signal: CVBS
Inspection item	<ul style="list-style-type: none">- Video performance test
Inspection Distance	<ul style="list-style-type: none">- 0.8 M ~1.0 M
Criteria	<ul style="list-style-type: none">- Check any abnormal color, line distortion or any noise on the screen.- Check Bright mode and STD mode exchange is normal.



Motion video

6. Audio Test

Procedure	<ul style="list-style-type: none">- Test equipment: DVD player- Test signal: CVBS
Inspection item	<ul style="list-style-type: none">- Audio performance test
Inspection Distance	<ul style="list-style-type: none">- 0.8 M ~1.0 M
Criteria	<ul style="list-style-type: none">- Check the sound from speaker- Check "Volume" is normal (Press "Menu" of Remote control of the EP752 to modulate the volume)



7. CS Setting

- (1) Press "Menu -> Select -> Left -> Right -> Select" on Remote control of the EP752 to get into service mode.
- (2) Press "Menu" button again, then use Left or Right button to select "CS", setting CS is "0".
- (3) Press "Menu" button to exit the service mode, waiting for 3 seconds to plug the power cable.



4-6 Optical Performance Measure

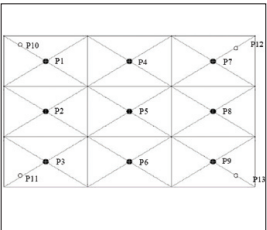
Inspection Condition
<ul style="list-style-type: none">- Environment luminance: 0.1 Lux- Product must be warmed up for 3 minutes- Distances from the screen: 0.8 M- Screen Size: 20 inches diagonal

1. Test equipment

Procedure	<ul style="list-style-type: none">- Test equipment: video generator- Test signal: CVBS- Please get into full power faction mode, focus should be clear, then start signal test.
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2. Brightness

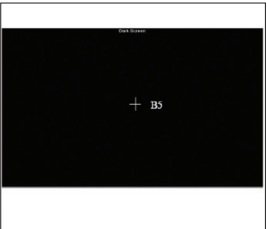
Procedure	<ul style="list-style-type: none">- Full white pattern- Use CL100 to measure brightness values of P1~P9.- Follow the brightness formula to calculate brightness values. <p>☀ Brightness Formula</p> <p>Avg. $(P1+P2+P3+...+P9) \times 0.12$</p>
Criteria	<ul style="list-style-type: none">• 6.0 ANSI Lumens



Full white pattern

3. Full On/Full Off Contrast

Procedure	<ul style="list-style-type: none">- Full white pattern & full black pattern- Use CL100 to measure brightness values of full white pattern P5 & full black pattern B5 (see image: full white)- Follow Contrast formula to calculate contrast values.
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Full black pattern

☀ Contrast Formula

$P5/B5$

Note: P5=center of white image

B5 = the center of black image.

Criteria • 800:1

4. Uniformity

Procedure

- Full white pattern
- Use CL100 to measure brightness values of P1~P9 (see image: full white).
- Follow the Uniformity formula to calculate average values.

☀ Uniformity Formula

$ANSI\ Uniformity = Avg.(P1,P3,P7,P9)/P5 \times 100\%$

Criteria • 50 %

4-7 Others

1. Functional Inspection

General	- All OSD functions must be checked for functionality. When OSD menu is displayed, there shall be no visible peaking, ringing, streaking, or smearing artifacts on the screen.
Factory Default	- The factory settings (with appropriate centering, size, geometry distortion, etc.) shall be displayed upon "Re-call" is selected from OSD
Display Size	- All preset modes shall expand to full screen size using OSD Horizontal and Vertical Size controls
Display Data Channel (DDC)	- The purpose of the DDC test is to verify the DDC1/ DDC2B operation of the projector and to verify Plug & Play function.

2. Check points for exterior and print pattern

Check item	Check point
Text & Pattern	missing letters & pattern or blurry prints are unacceptable.
Exterior	dirt, scrape, water ripples and uneven color are unacceptable.
Buttons	stuck buttons are unacceptable.
Focus Ring	Focus ring is functioning smoothly.
Logo	missing logo, missing prints and blurry prints are unacceptable
Screw	All screws should be fixed and in right type.

Firmware Upgrade

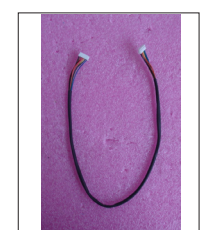
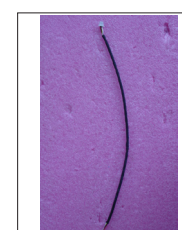
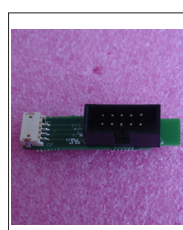
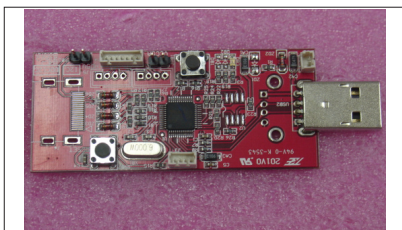
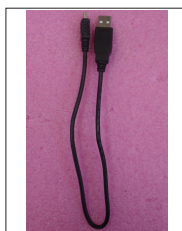
5-1 Equipment Needed

Software :

- MCU_ISP_SETUP
- USB Driver

Hardware :

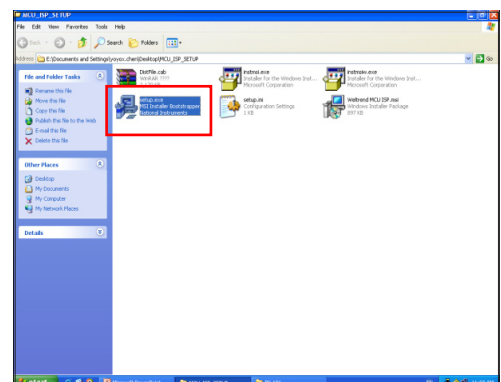
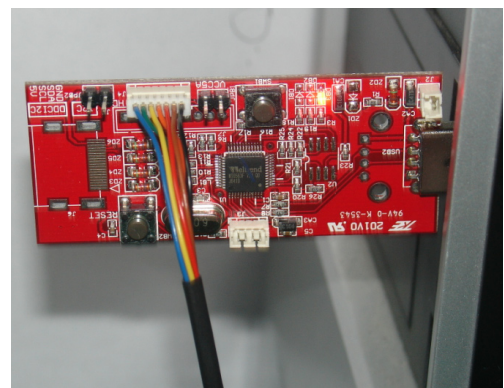
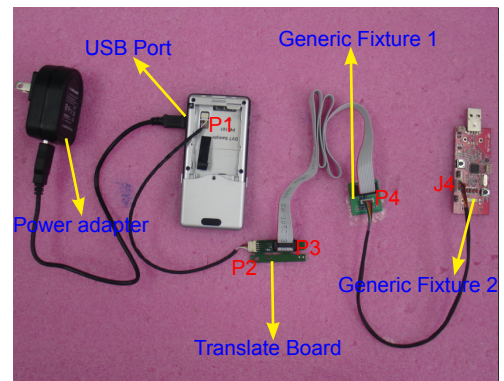
- Projector (PK-101)
- USB Cable (42.00285G001)
- Power adapter (42.8BU01G001)
- Monitor
- PC
- Generic Fixture 1 for FW Upgrade
- Generic Fixture 2 for FW Upgrade
- Translate Board
- 4 pin wire for FW Upgrade
- 7 pin wire for FW Upgrade



5-2 Setup Procedure

1. Connect all ports
 - Connect Power adapter and Projector USB port by USB Cable.
 - Disassemble the Battery Cover and remove the Battery.
 - Connect Projector P1 port and Translate Board P2 port by the 4 pin wire.
 - Connect Translate Board P3 port to Generic Fixture 1.
 - Connect P4 port of Generic Fixture 1 to J4 port of Generic Fixture 2 by the 7 pin wire.
 - Connect USB Port of Generic Fixture 2 with USB Port of PC.

Note: The DB3 LED will light on and appear red.



5-3 MCU ISP SETUP Procedure

1. Choose "Setup.exe" Program.
2. Click "Next" button.

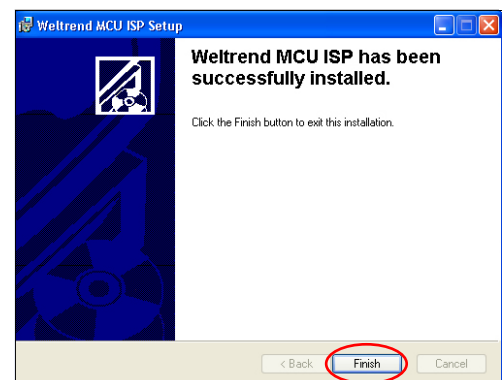
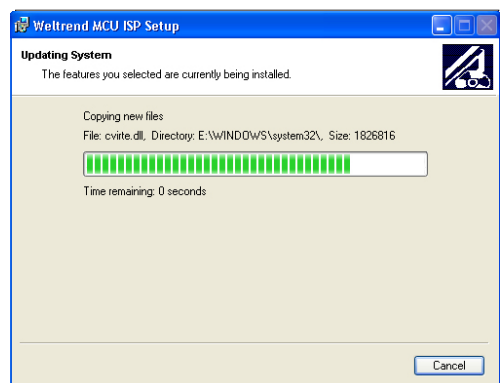
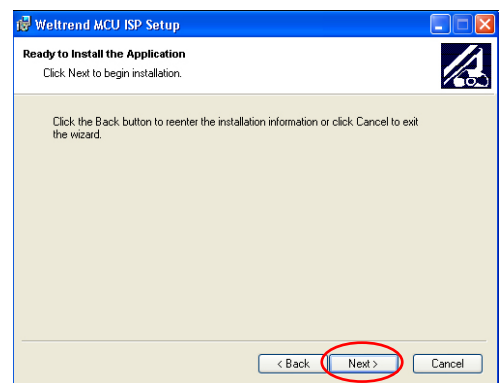
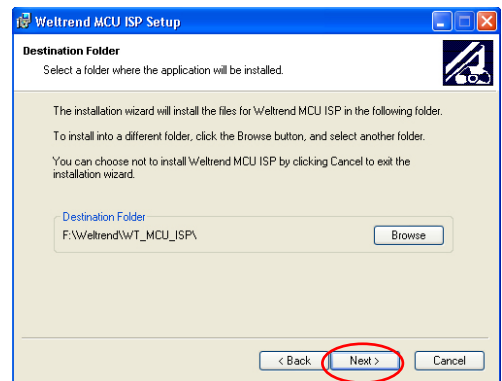


3. Click "Next".

4. Click "Next".

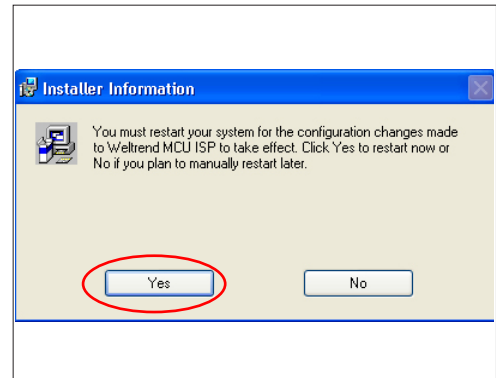
5. Writing system registry values.

6. Click "Finish".



10. Click "Yes"

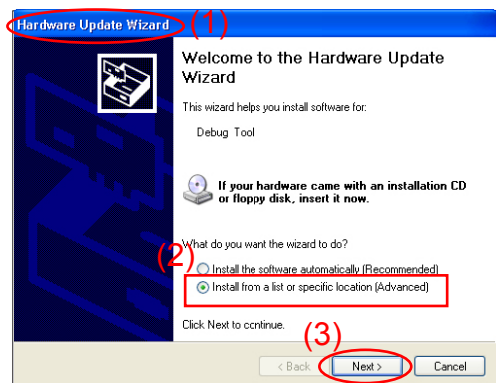
- Restart the computer for the configuration changes made to Weltrend MCU ISP to take effect.



5-4 USB Driver Upgrade Procedure

1. Set up

- Connect USB Port 2 of Fixture with USB Port of PC, then the DB3 LED will light on and appear red.



2. Execute Program

(1) "New hardware wizard" will be appeared on the screen.

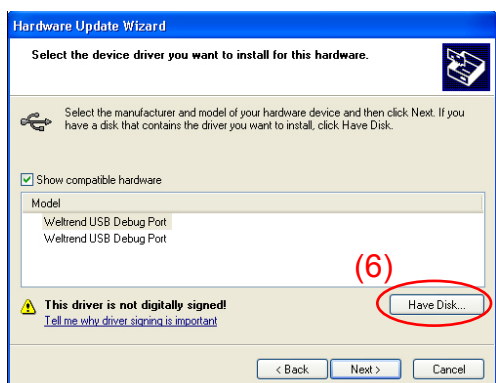
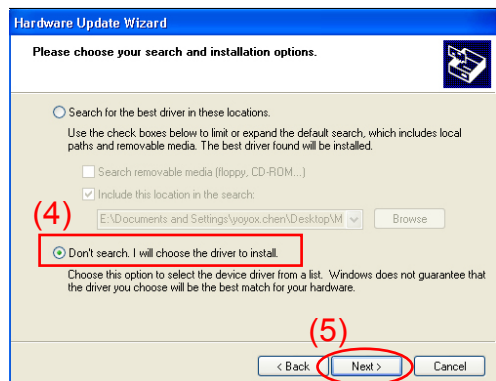
(2) Select "Install from a list or specific location(Advanced)".

(3) Then click "Next".

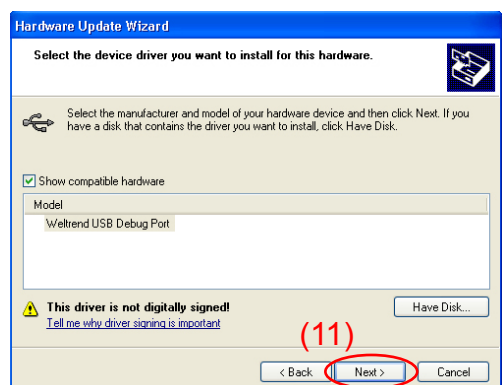
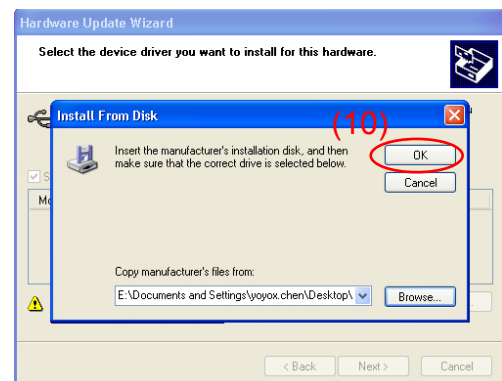
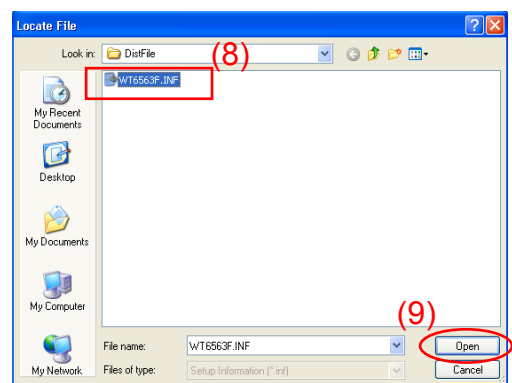
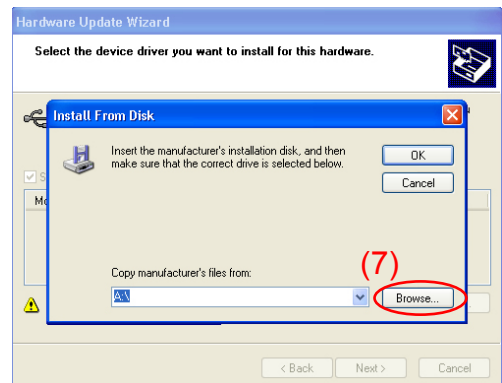
(4) Select "Don't search. I will choose the driver to install".

(5) Then click "Next".

(6) Click "Have Disk".



- (7) Click "Browse".
- (8) Select the source file "WT6563F.INF".
- (9) Then click "Open".
- (10) Click "OK".
- (11) Click "Next".

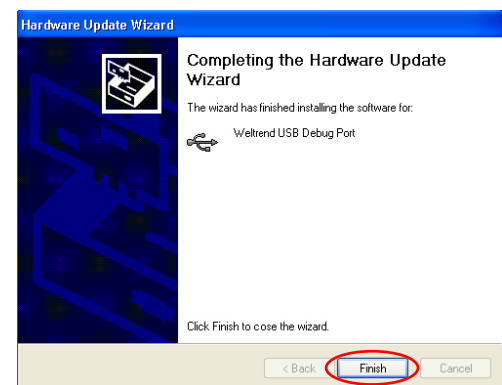
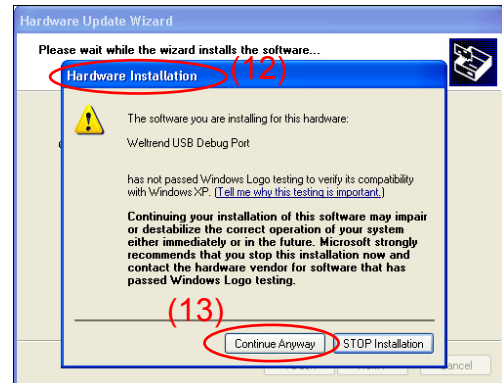


(12) "Hardware Installation" will be appeared on the screen.

(13) Click "Continue Anyway".

3. Finish installation

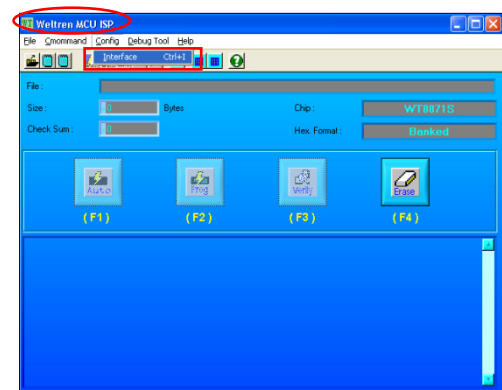
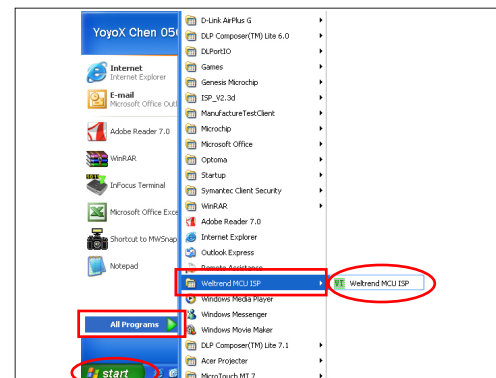
- Click "Finish" to end the installation.



5-5 Firmware Upgrade Procedure

1. Click "Start" and select "All Programs", then select "Weltrend MCU ISP" and click "Weltrend MCU ISP".

2. "Weltren MCU ISP" will be appeared on the screen, then click "Config" and select "Interface".



3. "Weltren" will be appeared on the screen,
then click "OK".

4. Process

- "Set Control Port" will be appeared on the
screen.

(1) Select "USB Port".

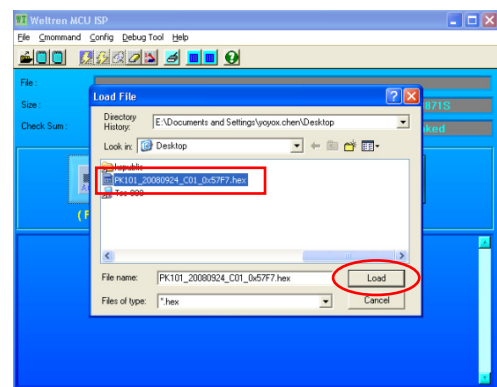
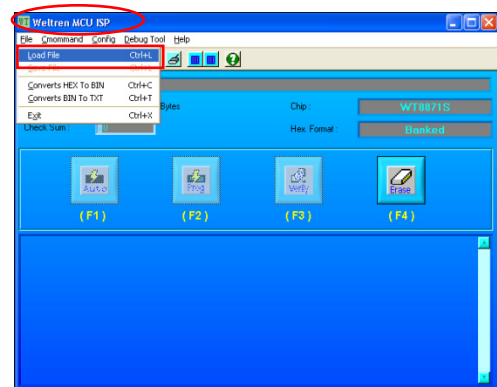
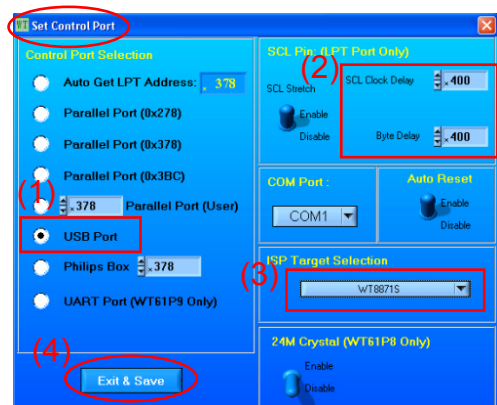
(2) Modify that the "SCL Clock Delay" is "400"
and the "Byte Delay" is "400" too.

(3) Select "WT8871S".

(4) Click "Exit & Save".

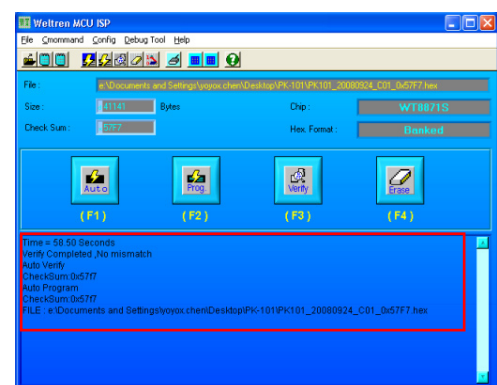
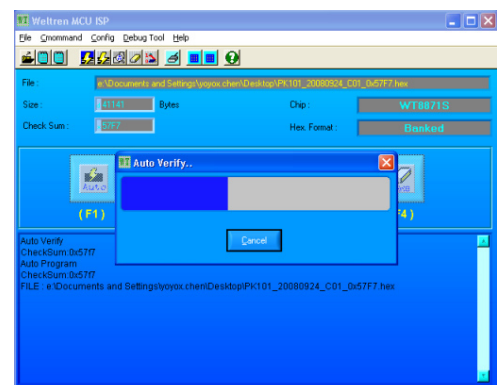
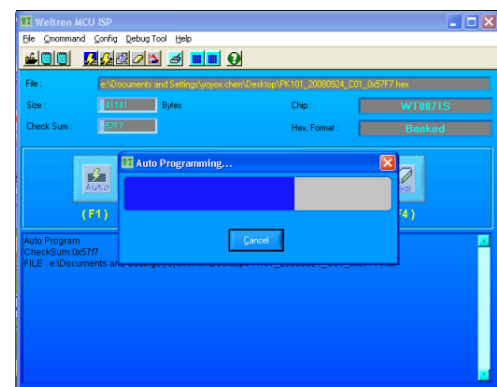
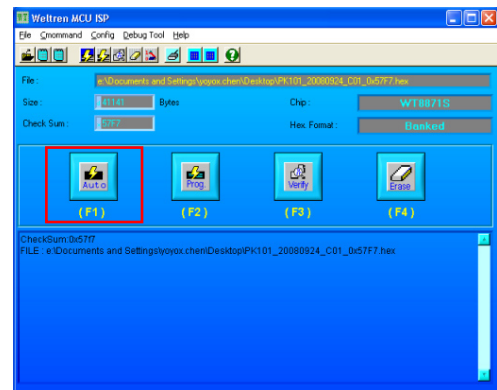
- "Weltren MCU ISP" will be appeared on
the screen, then click "File" and select "Load
File".

- Select "PK101_20080924_C01_0x57F7.
hex", then click "Load".

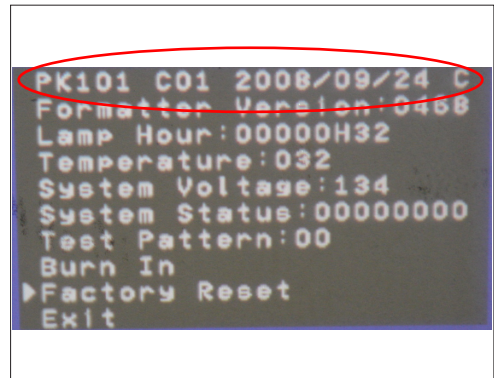


- Click "Auto", the Firmware upgrade procedure will be on auto run.
- Firmware upgrade procedure will take about 1 minute.

5. The success information will show on screen.



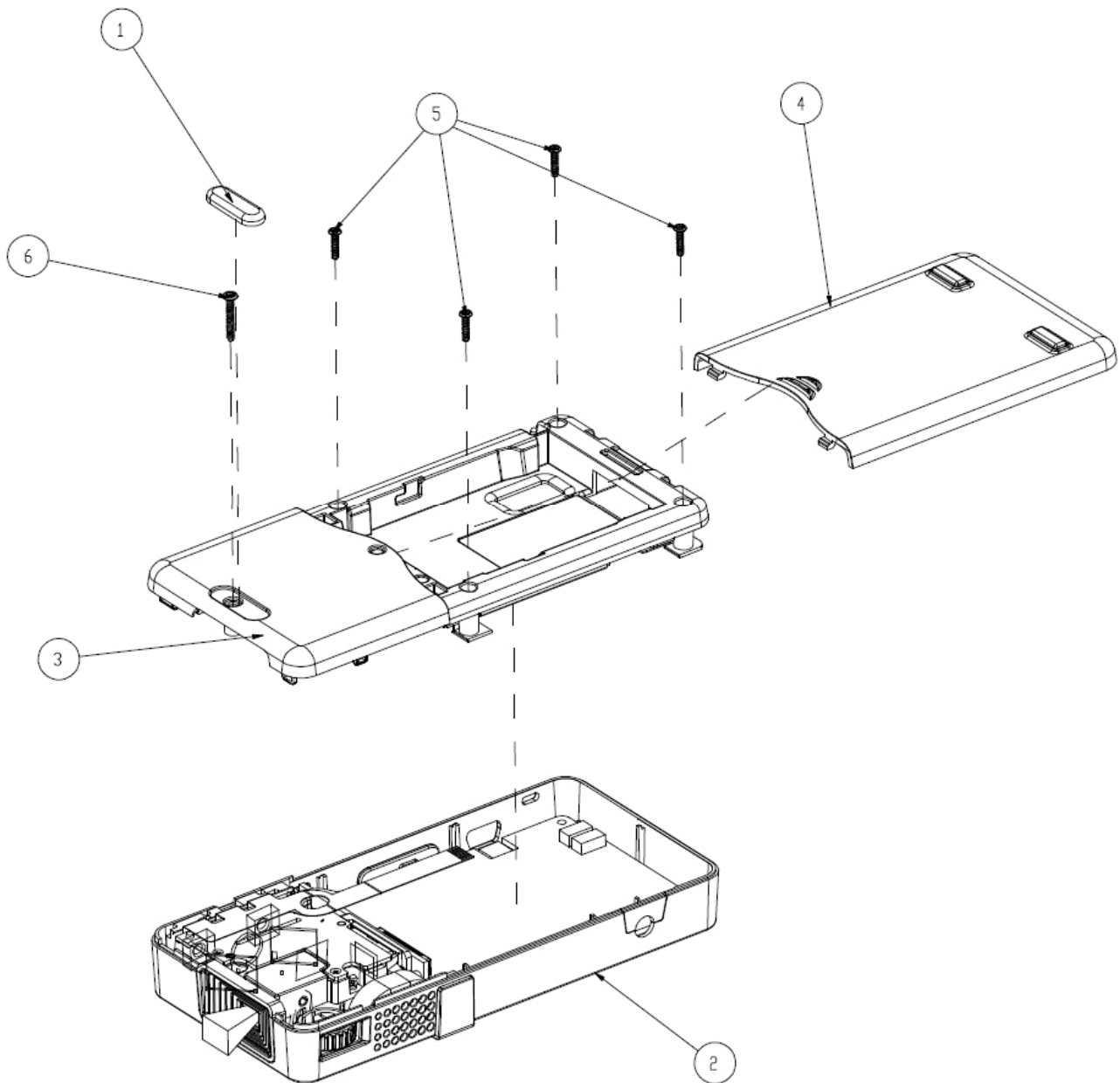
6. When firmware upgrade procedure is finished, the unit returns to stand-by status. Then enter the service mode to check the firmware and see if it is correct.



Appendix A

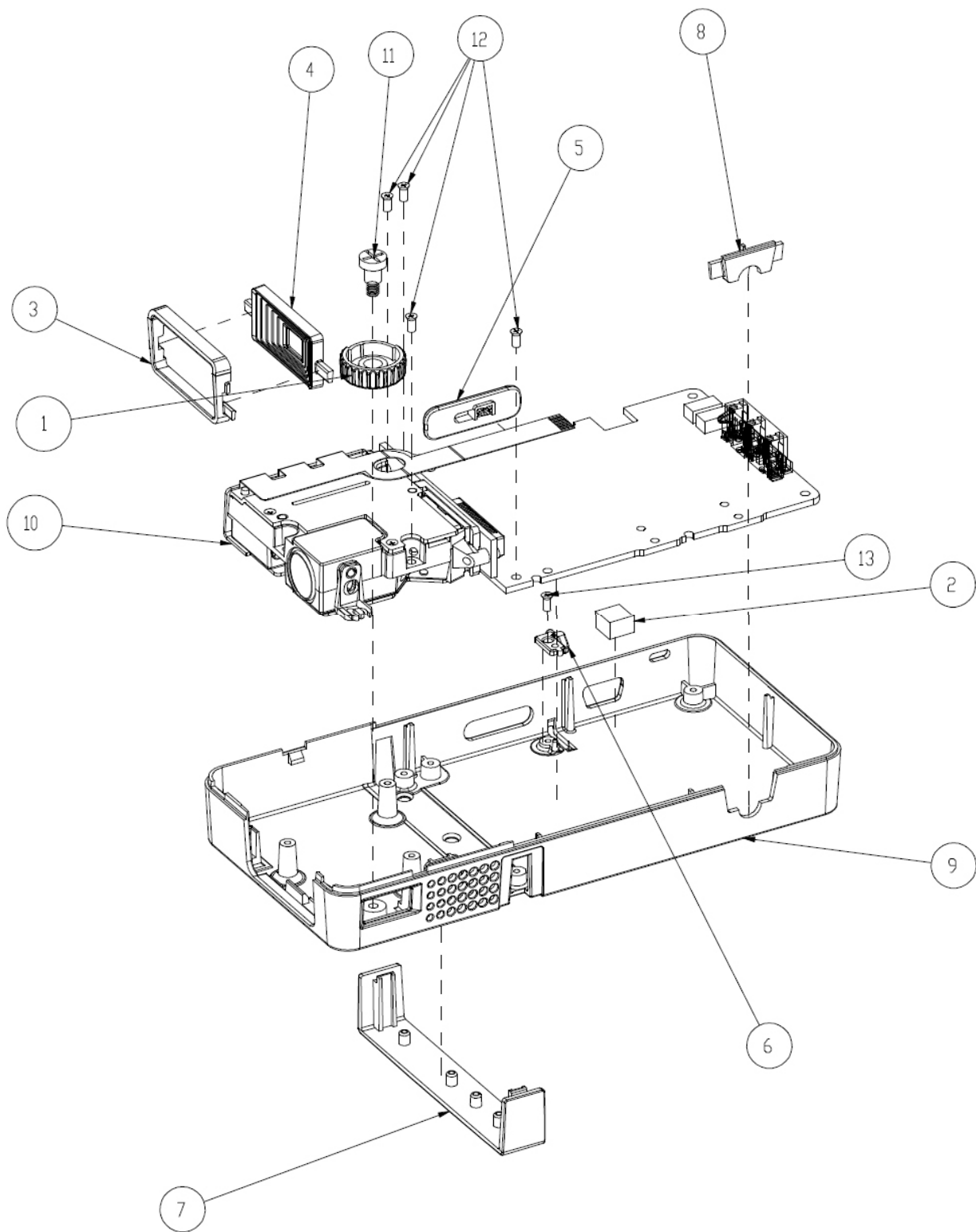
Exploded Image

D.C. For PK-101



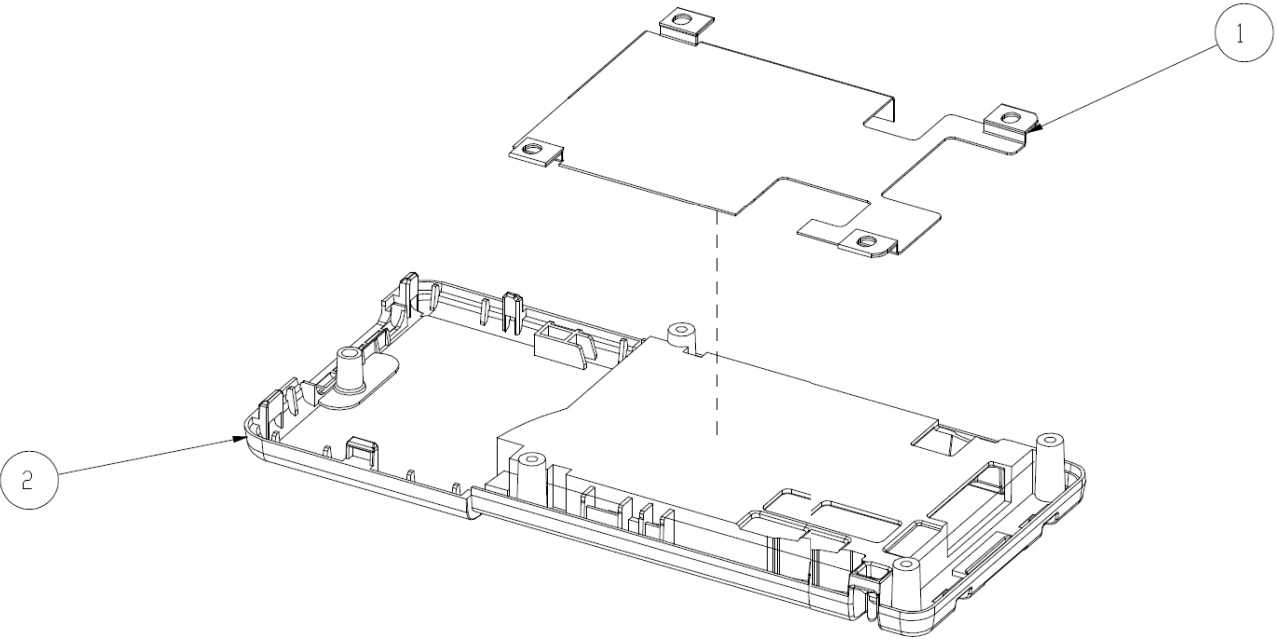
Item	P/N	Description	Parts Supply
1	52.8BU02G001	FRONT RUBBER FOOT SILICON PK-101	V
2	70.8BU01G001	TOP COVER MODULE PK-101	
	70.8BU09GR01	ASSY BOTTOM COVER MODULE PK-101(SERVICE)	V
3	70.8BU02G001	BOTTOM COVER MODULE PK-101	
	70.8BU10GR01	ASSY BATTERY COVER MODULE PK-101(SERVICE)	V
4	70.8BU06G001	BATTERY COVER MODULE PK-101	
5	85.4A12AG060	SCREW FLAT MACHINE M1.4*6.0 P=0.3	
6	85.4A12AG100	SCREW FLAT MACHINE M1.4*10.0 P=0.3	

Assy Top Cover Module For PK-101



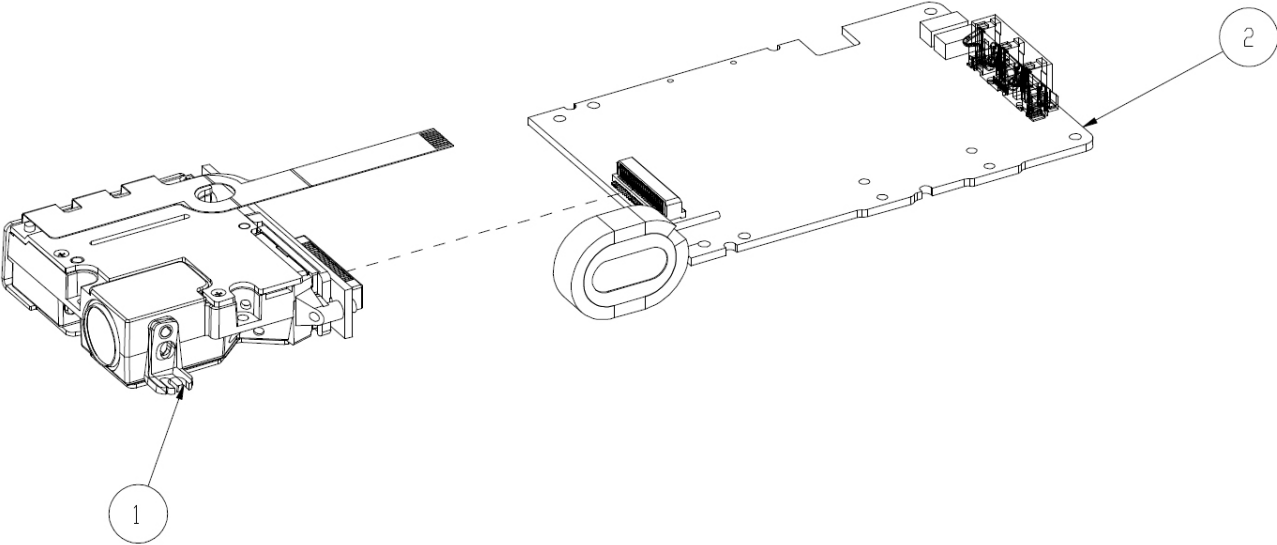
Item	P/N	Description	Parts Supply
1	51.8BU09G001	FOCUS RING MN-3600H PK-101	V
	70.8BU07GR01	ASSY TOP COVER MODULE PK-101	V
2	41.68204G004	EMI GASKET W5*H3.5*L5mm GREEN	
3	51.8BU03G001	LENS DECO ABS PK-101	V
	70.8BU11GR01	ASSY LENS DECO INNER MN-3600H PK-101 (SERVICE)	V
4	51.8BU04G001	LENS DECO INNER MN-3600H PK-101	
5	51.8BU05G001	SLIDE SWITCH MN-3600H PK-101	V
6	51.8BU06G001	LED LENS TRANSPARENT PC PK-101	V
7	51.8BU07G001	TOP DECO MN-3600H PK-101	
8	51.8BU08G001	AV JACK COVER MN-3600H PK-101	V
9	61.8BU01G001	TOP COVER AZ91D PK-101	
10	70.8BU03G001	MB ENGINE AND MYLAR MODULE PK-101	
11	61.8BU02G001	FOCUS RING STEP SCREW NICKEL M2 WITH NYLOK PK-101	V
12	85.4A42AG030	SCREW FLAT MACHINE M1.4*3.0 P=0.3 CR+3	
13	61.D0124G001	SCREW CYLINDER MACHINE M1.4*2.5 H=0.3 CR+3	

Assy Bottom Cover Module For PK-101



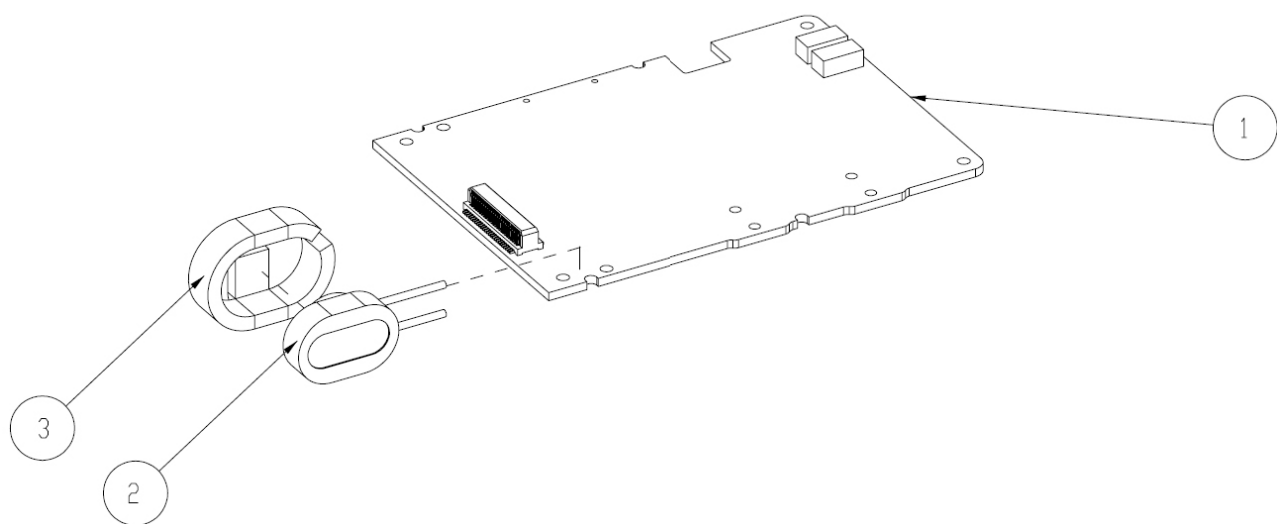
Item	P/N	Description	Parts Supply
	70.8BU09GR01	ASSY BOTTOM COVER MODULE PK-101(SERVICE)	V
1	51.8BU11G001	EMI AL MYLAR COVER PK-101	
2	51.8BU01G001	BOTTOM COVER MN-3600H PK-101	

Assy Main Board Engine And Mylar Module For PK-101



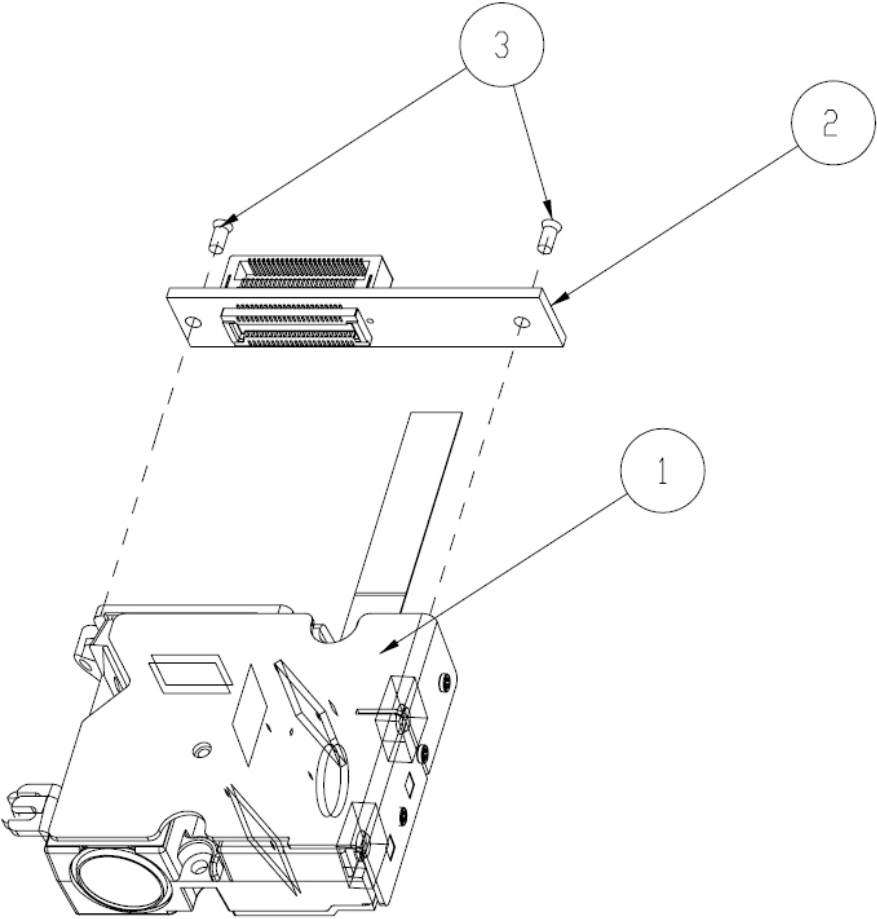
Item	P/N	Description	Parts Supply
1	70.8BU05G001	ENGINE MODULE PK-101	
	70.8BU08GR01	ASSY MB MODULE PK-101(SERVICE)	V
2	70.8BU04G001	MB MODULE PK-101	

Assy Main Board Module For PK-101



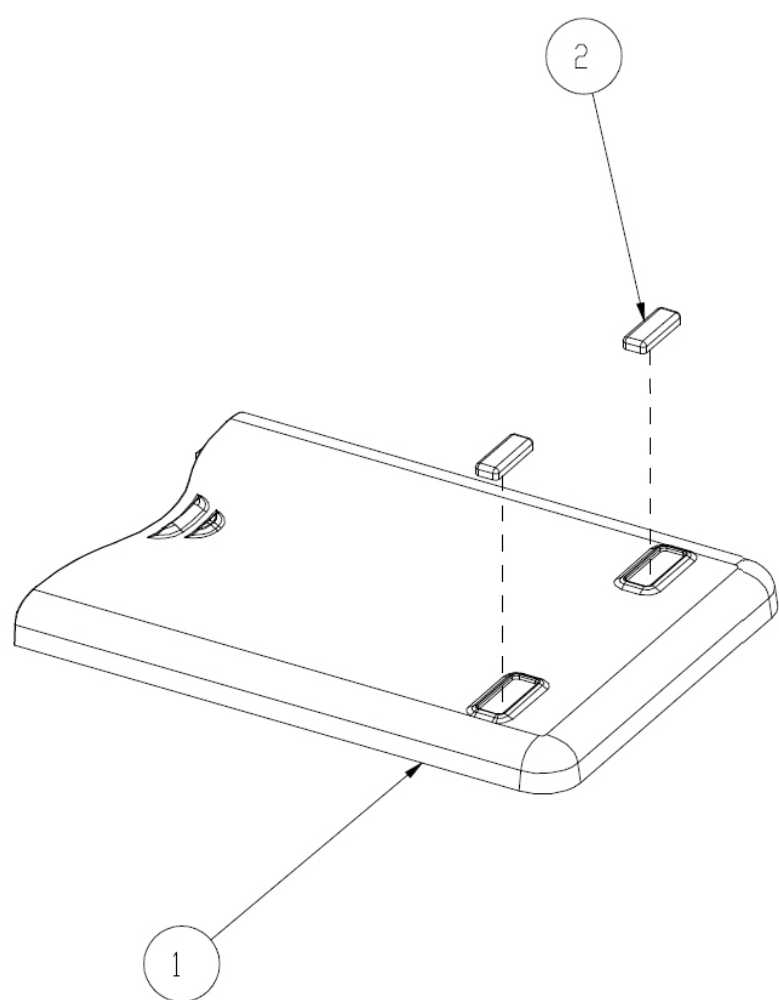
Item	P/N	Description	Parts Supply
1	80.8BU01G001	PCBA MAIN BD FOR SMD ASSY PK101	
2	49.8BU01G001	SPEAKER 1W 4OHM LB15100041-C115 GP PK-101	
3	52.8BU01G001	SPEAKER SPONGE CVB-SXXXB PK-101	

Assy Engine Module For PK-101



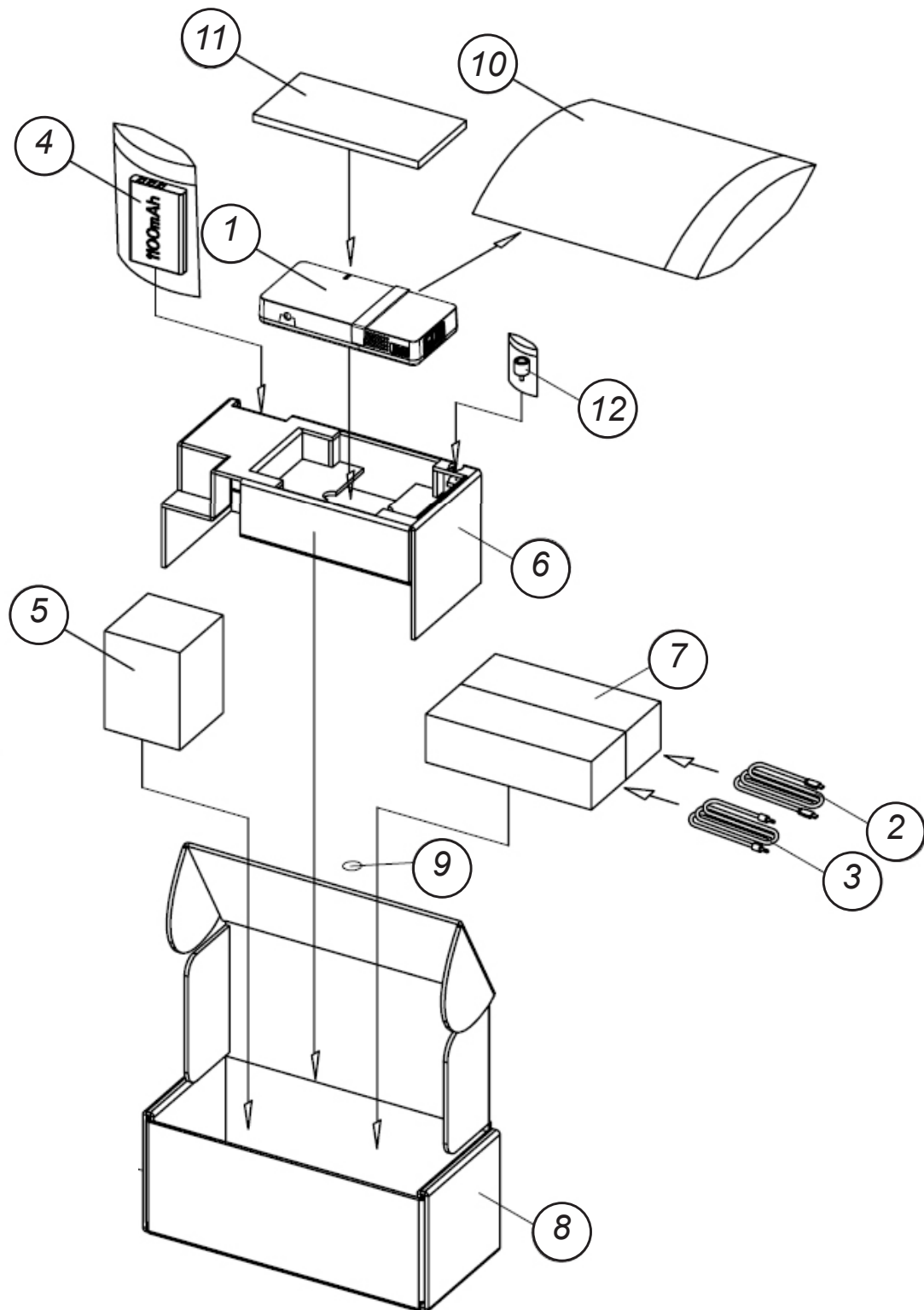
Item	P/N	Description	Parts Supply
	70.8BU12GR01	ASSY PROJECTOR LIGHT ENGINE PK-101 (SERVICE)	V
1	75.8BU01G001	0.17" DMD PICO PROJECTOR LIGHT ENGINE	
2	80.8BU02G001	PCBA DMD CONNECTOR BD ENTEK FOR PITO	V
3	85.4A42AG030	SCREW FLAT MACHINE M1.4*3.0 P=0.3 CR+3	

Assy Battery Cover Module For PK-101



Item	P/N	Description	Parts Supply
	70.8BU10GR01	ASSY BATTERY COVER MODULE PK-101(SERVICE)	V
1	51.8BU02G001	BATTERY COVER MN-3600H PK-101	
2	52.8BU03G001	REAR RUBBER FOOT SILICON PK-101	

D.P. For PK-101(Packing Procedure Drawing)



item	P/N	Description	Parts Supply
1	DC.8BU01G001	D.C. PK-101	
2	42.00286G101	CABLE USB-MINI TO USB-A 0.3M BLACK	V
3	42.00233G001	CABLE 2.5MM MINA JACK-M TO 3*RCA-F R/W/Y	V
4	46.8BU02G001	BATTERY NP-60 3.7V 1100mAh LICO	V
5	47.8BU01G002	AC ADPTR IN:100-240V OUT:5V 1A ELEMENTECH PK-101	V
6	55.8BU03G001	PARTITION BOX PK-101	
7	55.8BU06G001	CABLE BOX PK-101	V
8	55.8BU02G001	PIZZA BOX PK-101	V
9	35.D0105G001	LABEL PREVENT OPEN DIM38MM CIRCLE TRANS	V
10	51.D0132G001	PE BAG LDPE 120*180*0.04 MM	V
11	52.8BU04G001	SPONGE PU 110*55*5mm PK-101	
12	85.FA112G050	SCREW M2 AND 1/4 INCH-20 ADAPT	V

Appendix B

I. Serial Number System Definition

Serial Number Format for Projector

<u>Q</u>	<u>8BU</u>	<u>8</u>	<u>36</u>	<u>AAAAA</u>	<u>C</u>	<u>0001</u>
①	②	③	④	⑤	⑥	⑦
①	:	Q = Optoma				
②	:	8BH = Project code				
③	:	8 = Last number of the manufacture year (ex:200<u>8</u> = 8)				
④	:	36 = week of the manufacture year (ex:the thirty-six week of the year = 36)				
⑤	:	AAAAA = not-defined				
⑥	:	C = Manufacture factory (TW or CPC)				
⑦	:	0001 = Serial code				

EX: Q8BU836AAAAAC0001

This label represents the serial number for PK-101. It is produced for USA at CPC on thirty-six week of 2008. Its serial code is 0001.

II. PCBA Code Definition

PCBA Code for Projector

<u>A</u>	<u>B</u>	<u>XXXXXXXXXX</u>	<u>C</u>	<u>XXX</u>	<u>EEEE</u>
①	②	③	④	⑤	⑥

- ① : ID
- ② : Vendor Code
- ③ : P/N
- ④ : Revision
- ⑤ : Date Code
- ⑥ : S/N